3. 解. (1) : $\int_{-\infty}^{+\infty} f(x) = \int_{-\infty}^{\infty} Ae^{x} dx + \int_{0}^{2} \frac{1}{4} dx + \int_{0}^{+\infty} o dx$ 习题 1. = A + 1 + 0 = 1 : A= 1 山 0岁 10日 时. $F(x) = \int_{-\infty}^{x} \frac{1}{2} e^{x} dx = \frac{1}{2} e^{x}$ 图当 0.5水~2 胜 F(x) = 5-01 ex dx + 5x + dx = 1 + 4x ③当 32 时. F(A) = 1 F(x) = { 1 + 4x . 0 < x < 2 はらままりのはして (3) P(16×43) = \$ \$(F(3) - F(1) = 1- 3 = 4 5. (1) X~B(1,p) 两点分布 , x; = 0,1 Poisson ST (2) X~P() (3) X~U[a,b] 均匀分本 a = X; = b . L= 1, 2, 3, 4,5 else

(4)
$$\chi \sim N(\mu, 1)$$
 ISSA
 $\frac{5}{11} \left(\sqrt{127} \cdot e^{-\frac{(\chi_1 - \chi_1)^2}{2}} - \infty \cdot e^{-\chi_1 \cdot \chi_2 \cdot \varphi_2} \right)$ $i = 1, 2, 3, 4, 5$

$$f_{\lambda}(x) = \int_{-\infty}^{+\infty} f(x, y) \, dy$$

$$= \begin{cases} \int_{-\infty}^{\infty} 1 \, dy & o < x < y \end{cases}$$

$$= \begin{cases} 0 & \text{else} \end{cases}$$

②丫的边缘党度函数 -- 22 -- 22 -- 23

$$f_{\chi(y)} = \int_{-\omega}^{+\omega} f(x,y) dx$$

$$= \begin{cases} \int_{y}^{y} |dx|, & o < y \le ||y|| \\ \int_{-y}^{y} |dx|, & -1 \le y \le 0 \end{cases}$$

$$= \begin{cases} 1 - |y|, & ||y| < 1 \end{cases}$$

$$= \begin{cases} 1 - |y|, & ||y| < 1 \end{cases}$$

$$= \begin{cases} 0, & e \le x \end{cases}$$

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$$r = \frac{\text{Cov}(x.X)}{\sqrt{\text{or}}}$$

$$COV(X,Y) = \bar{E}(X-\bar{E}X)(Y-\bar{E}Y) = \bar{E}(XY) - \bar{E}X\bar{E}Y$$

$$E(X) = \int_{-\infty}^{+\infty} \int_{-\infty}^{+\infty} x f(x,y) dxdy = \int_{-\infty}^{\infty} \int_{0}^{\infty} x dxdy = \chi$$

$$E(X') = \int_{-\infty}^{+\infty} \int_{-\infty}^{+\infty} x^{2} f(x,y) dxdy = \int_{-\infty}^{\infty} \int_{0}^{\infty} x^{2} dxdy = \frac{\pi}{3} \times \frac{\pi}{3}$$

$$E(X') = \int_{-\infty}^{+\infty} \int_{-\infty}^{+\infty} x^{2} f(x,y) dxdy = \int_{-\infty}^{\infty} \int_{0}^{\infty} x^{2} dxdy = 0$$

$$E(X') = E(X') - [E(X)]^{2} = \frac{\pi}{3} \times - \chi^{2}$$

$$D(X) = E(X') - [E(X)]^{2} = \frac{\pi}{3} \times - \chi^{2}$$

$$D(X) = E(X') - [E(X)]^{2} = \frac{\pi}{3} \times - \chi^{2}$$

$$D(X) = E(X') - [E(X)]^{2} = \frac{\pi}{3} \times - \chi^{2}$$

$$D(X) = \frac{\pi}{3} \times - \frac{\pi}{3}$$

$$= \int_{-\nu}^{+\infty} \frac{1}{2!} \cdot \frac{1}{\sqrt{2}\pi} \cdot e^{-\frac{|\vec{x}|^2}{2}} dz$$

$$= \int_{-\nu}^{+\infty} \frac{1}{\sqrt{2}\pi} \cdot e^{-\frac{|\vec{x}|^2}{2}} dz$$

月影 2. 3. 解. d2 = 4, n = 100, 明天日本 奏出報為東京理 $P\left(\left|\frac{\overline{X}-\alpha}{\sigma/\sqrt{n}}\right| \le X\right) = P\left(\left|\frac{\overline{X}-\alpha}{2/\sqrt{n}\sigma}\right| \le 5k\right) = P\left(5|\overline{X}-\alpha| \le 5k\right)$ · X-a with NLO,1) : P(5|x-a| 65k) = P(-5k 65|x-a) 65k) = 15b) - BC-5b) = 1(5k) - (1-1(5k)) = 23(5k) -1 = 0,9 : 1 (5k)= 0.95 = 5k=1.65 = k=0.33 5. 解 × ~1(20, 10)、 ダ ~ N(20, 1)、 x-x ~ N(20, 25). (文, 草相互独生)。 (1)·(x-x)~10,11. 39-33 3+3 45 30 : P(1x-x1>0.3) = 1- P(1x-x1 603) = 1- P(52 |x-x1 60352) = P (NOO2)X-Y > 0,3NOO2) = 1-[1(0,350) - 1(-0350)] = \$ (0,352) - \$ (-0.3 NZ) = 2-2 \$ (0)3 NZ) = 2-2.0.6628 = 2 = (0,3,52) +1=1-0,38=0,62.

= 0.6744

$$\chi^2 = \sum_{i=1}^{n} \left(\frac{\chi_i}{\chi_i}\right)^2 \sim \chi^2(10)$$

$$P\left(\frac{1}{2}X_{i}^{2}>C\right)=P\left(\frac{1}{2}\left(\frac{X_{i}}{2}\right)^{2}>\frac{C}{4}\right)$$

150 2 10 3 21

$$=\chi^{2}(2)$$
 $\Rightarrow a=\frac{1}{2}, d=\frac{1}{3}, n=2.$

$$\frac{(\chi_1^2 + \chi_2^2 \theta)/2}{\left[\frac{1}{3} (\chi_{31} \chi_{47} \chi_{51})\right]/1} \sim F(2, 1)$$

2(0. W/n)

3 V. K do 3. 9 7

11.6

习题 3.

$$2 \frac{d}{dt} \left[\left(\frac{d}{dt} \right) \right] = \frac{d}{dt} \left[\left(\frac{d}{dt} \right) \right] = \frac{d}{dt}$$

$$|\mathcal{R}|$$
 $|\hat{\mathcal{L}}_1| + |\hat{\mathcal{L}}_2| = |\hat{\mathcal{R}}_1| + |\hat{\mathcal{L}}_2| = |\hat{\mathcal{L}}_1| + |\hat{\mathcal{$

$$\ln(Ld) = n \ln(d+1) + d \sum_{i \neq j}^{n} \ln \chi_i$$

对人放多得:

$$\frac{n}{a+1} + \sum_{i=1}^{n} |nX_i| = \frac{n}{n} + \sum_{i=1}^{n} |nX_i$$

$$\frac{n}{\sqrt[3]{2}+1} + \sum_{i=1}^{n} \ln x_i = 0 \implies \sqrt[3]{2} = -\left(1 + \frac{n}{\sum_{i=1}^{n} \ln x_i}\right)$$

11. 國、由國語建 236日

(3) 将样本观频值代允得:

$$\hat{d}_1 = 0.3079$$
 $\hat{d}_2 = 0.21117$

8.
$$E(\bar{x}^2 - CS^2) = E\bar{x}^2 - CES^2 = D\bar{x} + (E\bar{x})^2 - CES^2$$

= $D^2 + M^2 - CD^2 = M^2$

(2. (1) 为差 5² 己知,从的置信度为 1- 及 的 置信区间为 (x- b M1-生 , x + 5 m M1-生)

观别值的乳计量如下。

$$\chi = 2.125$$
 $d = 0.1$ $\mu_{1-\frac{1}{2}} = \mu_{0.95} = 0.95$

M 钥置信度为 90% 甪置信区间为 (2.120 11. 2.129).

(2) NÉ J2未知, M. 的复信废为 L. 从的置信区间为

纸件 to.qs (15) = 1.753 , S=0.0171 从侧置信度为9% 侧置信区间为(2.115,2.135)。

strain-11 s

4. 解: tr2. tr3 未知, M.-M. 的遗信度为 1-1 的 盖信区间为

计算度:
$$\bar{\chi} = 0.14 \text{ las}$$
. $\bar{Y} = 0.1392$.

 $t_{0.975}(7) = 2.365$.

 $S_{x}^{2} = 8.75 \times 10^{4}$. $S_{y}^{2} = 5.1210^{-6}$.

 $n_{1} = 4. \ n_{2} = 5.1210^{-6}$.

程: 9%的置信任间为(-0.00m, 0.00b3).

习题 4

3. 解: 此题是要检验假设: Ho: 15=12, H,: A 5 = 12. 故H. 的拒绝域为: \ X2 6 X 6 (n-1)

1 x2 > x1-3 (n-1) (x2)= (1) e-1. k=0, 12,

2 1 n = 10, S2 = 70,889, Vo = 12

 $\chi^2 = \frac{(n-1) S^2}{V_0^2} = \frac{9 \times 70.889}{12^2} = 4.4368.$

 $\chi \neq \chi_{\frac{1}{2}(n-1)}^{2} = \chi_{0,0}^{2}(9) = 2,7$

 $\chi_{1-\frac{1}{2}}^{2}(n-1) = \chi_{0.915}^{2}(9) = 19.02$ 则 H。例 柜 超 城 为 【 X = 27 . X > 19.02] 当至12时烟,从2二4.4368 不在月。的枢络城 別说明可以从为总体标准至 丁=12.

6. 解. 此聚是更应验, Ho, MI=M2, H,: M1+M2, 可, 成未知.但

因 x=215. 下=18. n=5: n=4. 5=7.55 5=215933 Sw = (n:-1)5; + (n=-1)5; = 5;4

(145-18) = 22462 15-14 + Si

H. 朗拒绝域

17 7 t1- 4 (n.+n,-2) = tags (5+4-2) = 2365 T=2.2453 不在 H. 街框绝域 由. 图 M.= M2. 即中. 乙板煤矿的含灰量车流元显着差异.

9.解:. 风 n=200, m=10, 考虑到部分区间[0,1).[1,2)...,[9,10), 本意 为检验假设 BERBERRS.

Ho: F(X) = Fo(X). Hi: F(X) + Fo(X).

其中Fo(x)为均目分布,由緊急得及=0.1, 1=0.1...9,可谓

$$\chi^2 = \sum_{i=1}^{M} \frac{(v_i - m_R)^2}{mp_i} = \sum_{i=1}^{M} \frac{(v_i - v_i)^2}{20} = 24.9$$

Ho 的拒绝域为

{x > X1-1 (m-1) = X95(9) = 16.916} X=24.9 在 H。由枢络城内、得. 这处数字不服从均匀分布.

10. 解: 本思是施强假设

Ho; F(x) = F(x), Hi: F(x) + F(x). 其中 F= (2) 为二项分布. P13=k3 = CN P* (1-p) N+ L(p) = T (\$ p \$ (1-p) n-51

故 しん(り)= していいかり + にん-まりいいり). 1/2 ph lq) = n = n = n = n = 1 - p = 0

在本塞中 n=100, man N=10, 故 p=0,1 当 Ho 成至时, 多~b (10,0.1)

Pl = Pay 13 = i-13 = Folk) - Fo(1-1), t=1,2...11.

中枢知 处定强信。 $\chi^2(11-2) = \frac{1}{5} \left(\frac{1}{100} \frac{1}{100} \right)^2 = 5.08$

重表得. Xing(9)=16.919 > X(9),故不意以Ho 即以为次品服从二项分布。/

12. 解: 两车间分轴取的 12产品 混合张序表为

致:0001 2 3 4 5 6 7 8 95 11 12 数据: 062 0.86 0.99 1.12 1.13 1.16 1.18 1.20 1.4 1.20 1.24 秋: 135 15 16 17 185 25 21 225 24 教她。 131 134 138 19 141. 1里 159 160 184

T = 112 (I denotes the sum of the ranks) two sample hypothesis:

Ho: Fx(x) = Fy(y); H1: Fx(x) \$ Fy(y).

" m=n 710

: test statistic is

$$U^{*} = \frac{\overline{1 - n(n+m+1)/2}}{\sqrt{nm(n+m+1)/12}} = -2.1939$$

Ho should rejected if

" |-2.19391| > 1.96 : 框垫Ho. 即顶及指析的分布显著不同.

习题 5

1. 解: From the table, we find that

≥ x1 = 3300 , ≥ x1 = 199 0000

$$\bar{x} = 60550$$
 $\bar{y} = 57$

$$G = \frac{Lxy}{Lxx} = 0.05886$$
, $A = \overline{y} - 6\overline{x} = 24.62857$

making the least squares line y=24.6286 + 0.0589 %

$$\bar{\chi} = 155069.5$$
 $\bar{y} = 6538.7222$

making the least squares line

Hypothesis:

the statistic
$$T = \frac{\hat{b}}{\hat{\sigma}} \sqrt{Lar}$$

$$J = \frac{b \sqrt{L} x}{b} = 22.9841$$

our conclusion is reject Ho. 副 X5 【显著线性相关

the Statistic
$$F = \frac{b^2 L_{xy}}{\partial x^2} = \frac{U}{Q/(n_2)}$$

Ho will be rejected if FZ Fra (1,m-2) In this case:

$$F = \frac{6^2 \text{Lag.}}{6^2} = 528 \text{ (a)}$$

F 7 Firs (1. n-2). therefore reject Ho, 即 X. (显著线性相关

3. 解: From the table can find theat

$$\sum_{i=1}^{8} \chi_{i} = 19.2$$
 $\sum_{i=1}^{8} \chi_{i} = \frac{1}{2} \times \frac{1}{2}$

$$\bar{\chi} = 2.4$$
 $\bar{y} = 0.2013$

Hypothesis: Ho: b=0. Hi: b+0.

UT-test.

while Q = 0.08+2, 0=0.00140

Ho will be reject if

1 |T = 4.7945 7, t = 60-2) = 2+202447-

.. reject Ho. 即 光动对问七分氧浓度显著相关.

$$F = \frac{\beta^2 \text{ Laye}}{\beta^2} = 22.9880$$

Ho is rejected while F 7 Fra (1, n-2) = Fo.95 (1, b) = 5.99 即流动助同与氧溶度显著相差。

$$\hat{\beta} = (X^{T}X)^{-1}X^{T}.Y = \begin{bmatrix} 1.1169187k_{10}^{2} \\ 1.4291 \times 10^{-2} \\ -7.1582 \times 10^{\circ} \end{bmatrix}$$

BP 9= 111.6918 +0,943 x, -7.1882x1

11. 17 Excel 73:

F=476.513 > Fagg (27)=955 级用回归数长数数。

$$\frac{1}{12} \times = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 2 & 4 & 1 \\ 1 & 3 & 9 & 4 \\ 1 & 3 & 9 & 4 \\ 1 & 4 & 16 & 70.8 \\ 1 & 5 & 20 & 12.8 \\ 1 & 6 & 36 & 12.8 \\ 1 & 7 & 49 & 50.3 \\ 1 & 8 & 69 & 20.3 \end{bmatrix}$$

$$\hat{\beta} = (x^{7}x)^{-1}x^{7}Y = \begin{pmatrix} -8.3395 \\ 34.8267 \\ -3.7623 \end{pmatrix} \rightarrow (c)$$

FILES OF SHELL STANDED STANDS STANDS

四日等在位于古疆"生物"的。

Chapter 6. 3.4.5.6

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7	124	To		L.	1.9.11	12 -1- 100
7.	PA .	M	-	Tactor	Without	Replication
	11-1					

SUMMARY	Colunt	Sum	Average	Variance	
0.2%	4	26	45	9.21 33	
0,4%	4 0	35,7	8.905	7,6225	
0,8%	4	48	12	6,36	
20°6	3	367	12/3333	41033	
0.0	3	31,3	10,4333	10,1633	
2006	3	225	7,5	13,69	
-40°C	3 1-1	19.2	6.4	5,07	
Nova			7 4 1		

ANOVA

Saure of Variation d of MS | F | P-value | F crit 会嗣重 60.78 1 30,39 1 34.59 | 0.000508 | 5:143253 | 13525 | 14.32 3 | 21.44 | 14.48 | 0.000924 | 4.75063

Total (130.3692) 11 1 - (150.3692) = (150.3692) = 1

Fo.95 (2,6) = 476 34597426 -

F(结局是)=3459 > Fo45(2,6)=5.14 F(试验运信)=24.4 > Fo45(3.6)=476 两有发出对中击值产生影响。 4. 强 ANOVA
Source of Var. SS. df MS F P-value Forth
Rows 1243.8 3 414.6 60.558 0.00/103 349
Columns 778.8 4 194.7 4.958 0.0/3595 3.26.
Error 471.2 12 39.267

Party - the Total March

Total 2493.8 19

Fo.95 (3,62) = 1859 3.49

Fo.qs(4.62) = 1009 3.26

由分差分析表中的下值SP-value值判断

石名省全对 抗断 33度5星着影响·

5. 辑. ANOVA

-1				~			
	Source of Var.	55	df	MS	F	P-value	F crit
	Sample	2,75	3	0.9167	032	0.664518	3. 0/
	Columns	27.167	2	13.58	7.888	0,0003)	3.403
	Interaction	135	6	1275	7.113	0.000/92	2508.
	Within	41333	24	1.72			

Total 144.75 35

Ferriz. 24) = 3.4 Forsi 3.24) = 3.01, Forsi 6.24) = 251
<7.888
7.888
7.883
7.883

採作工和包至作用对野量自己有影响,机器无是看影响。

ANDUA		Mare				Avova 351.4
Source of Var.	- 55	df	MS	F	P-value	Ferit.
Sample	12.46	3	4.153	2,431	0.15)	349
Columns	14.33	2	7.167	4.195	0,012	3.89
Interaction		6	7-278	4,2 60	0.457	2,996
WaWithin	205	12	1,708			
				PI	Silpric	Jotel
Total	90.96	13				
					19.0	Fors (3.6) = 1
Fogs (3, 12) =	34772	,431	T-095 (6.12) =	3 2000	160
Fogs (212)=	3.89 4	4195	· Landau		A Fig.	电台系台联系
					7 TO 3 20	
得: 冰						
10.	-		1	1 11 1	11/	THE AMERICA
ver I					12	
***************************************	Person		- AN	76		od to amo
10.8 %	Cylla		(3/2)	16	202	Some of Vac
102 8	(Special)	100	1989	1	71,5	Summer of Vic
102 8	Cylla	100	2041		500 500 500	supposed to the state of the
102 8	(Special)	100	1989	16 8	71,5	alpeand and alpeand alpeand and alpeand alpeand and alpeand and alpeand and alpeand and alpeand and al
108 8	(3000) (3000)	100	1200 1200 1200 1200	YV.	50.5 50.5 50.5 50.5	
108 8	(1)20°.	1888	1260 1260 1260 1260	136	50.5 50.5 50.5 50.5 50.5	felol
108 8	(1)20°.	1888	1260 1260 1260 1260	136	50.5 50.5 50.5 50.5 50.5	

	因子幸	支荷估计	变量共同度	特殊因子方差
变量	ây	= Jinj	124 hi	asi = 1 - hi
	L	F ₂		
1	0.8757	-0.1802	0.7994	92006
2	0,8312	-0.4048	0.8547	0.1453
3	0,7111	0.6951	0.98878	0.01/22
接受献	1.9634	0.6795		

复公内子影响最大的更量的X;最有影响的公园子是Fi.

2. 因子後转前的两个母子数局表。

	1	2	
到江	0.841	0.45	
乡沟	0,880	9,320.	
均 32	0.199	0.968	
到汇 分湖 均 22 加 2 2 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2	0.929	2.045	
	,	,	